

Bluetooth Modeling & Assessment



Objectives

To evaluate the performance of Bluetooth in presence of other Bluetooth users and in face of ISM band interference from other devices.

To develop image/video transport mechanisms for Bluetooth.

To evaluate suitability of Bluetooth, and other wireless LAN technology for use in "Smart Spaces".

To verify and validate Bluetooth protocols, specifically the Link Manager Protocol (LMP).

Collaborators/Customers

- Industry Collaborators: **Ericsson, IBM**
- Federal Partners: **DARPA**
- Standards Groups: **Bluetooth SIG, WAP, Home RF**

Planned Products

A complete software reference implementation of a Bluetooth piconet taking into account interference from other piconets and ISM band devices.

Image/video transport algorithms specifically designed for Bluetooth environment.

Validation model for LMP.

Contributions to Bluetooth SIG in evaluating Bluetooth performance.